BRUHAT BENGALURU MAHANAGARA PALIKE

Name of work: Improvements and RE-Asphalting Ganesha Saw Mill road and Surrounding roads in Dasarahalli Ward No 15..

Sl No	Description of work	No	Dimensions L	B	D	Qty	Rate	Unit	Estimated Cost Rs: 40.00 Lakhs Amount
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1	Removing and refixing stone slabs of drains and pointing in CM (1:3) ,SR Rate 2018-19. P27,I 5.33								
	Ganesha saw mill road drain desilting (W.0057)	2	70.00	0.90		126.00			
		2	40.00	0.90		72.00			
		2	40.00	0.90		72.00			
		2	350.00	0.90		630.00			
					Total	**900.00**			
	missing slab of 25%					225.00			
					Total	**675.00**	111.30	sqm	75128.00
	Basic Rate	105.00							
	A.W.@ 6%	6.30							
	Total	111.30							
2	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto .imeters and an average lift upto 0.5 m, exf-avated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as perspecifications. MORTH / Chapter SR Rate.2018-19.p158/i21.3								
	Ganesha saw mill road drain desilting	2	70.00	0.60	0.45	37.80			
		2	40.00	0.60	0.45	21.60			
		2	40.00	0.60	0.45	21.60			
		2	350.00	0.60	0.45	189.00			
	road side and kerb	2	70.00	0.40	0.25	14.00			
		2	40.00	0.40	0.25	8.00			
		2	40.00	0.40	0.25	8.00			
		2	350.00	0.40	0.25	70.00			
	Ganesha saw mill road cut portion	1	70.00	0.60	0.60	25.20			
		1	40.00	0.60	0.60	14.40			
		1	40.00	0.60	0.60	14.40			
		1	350.00	0.60	0.60	126.00			
					Total	**550.00**	133.56	Cum	73458.00
	Basic Rate	126.00							
	A.W.@ 6%	7.56							
	Total	133.56							
3	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation, plinth and cills**, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.13, I.No. 4.6 of PWD SR 2018-19)								
	Ganesha saw mill road drain flging course	4	70.00	0.15	0.20	8.40			
		4	40.00	0.15	0.20	4.80			
		4	40.00	0.15	0.20	4.80			
		4	350.00	0.15	0.20	42.00			
	road side and kerb	2	70.00	0.30	0.10	4.20			
		2	40.00	0.30	0.10	2.40			
		2	40.00	0.30	0.10	2.40			
		2	350.00	0.30	0.10	21.00			
					Total	**90.00**	5747.32	Cum	517259.00
	Basic Rate	5422.00							
	A.W.@ 6%	325.32							
	Total	5747.32							
4	Providing and fixing **RCC precast Slabs of 0.10 m thick of CC M20 with 20 mm** and down size graded granite metal , machine mixed , including cost of all material , labour , HOM of Machinery , curing complete								
	qty vide item no-01 Missing slab of drain					225.00			
					Total	**225.00**	1615.00	sqm	363375.00

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	Providing and fixing Pre cast solid concrete kerb stones made out of No.272.21 CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc. complete -do- of size 450x200x400 mm PWD SR 2018-19 (P-27, I No-5.29.1)								
	Ganesha saw mill road								
	road side and kerb	2	70.00			140.00			
		2	40.00			80.00			
		2	40.00			80.00			
		2	350.00			700.00			
					Total	**1000.00**			
						1024.00	452.88	No	463749.00
	1000.00/0.45=								
	Basic Rate	408.00							
	A.W.@ 6%	44.88							
	Total	452.88							
6	KSRB 15-19.1 : Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications SR 2018-19 P 124 I 15.80								
	Ganesha saw mill road								
	road side and kerb	2	70.00		0.35	49.00			
		2	40.00		0.35	28.00			
		2	40.00		0.35	28.00			
		2	350.00		0.35	245.00			
					Total	**350.00**	41.07	sqm	14375.00
	Basic Rate	37.00							
	A.W.@ 6%	4.07							
	Total	41.07							
7	KSRB 15-19.2 : Providing and applying spray painting in two coats (excluding priming coat) over concrete / masonry / asbestos cement sheet / plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications.SR 2018-19 P 124 I 15.81								
	Ganesha saw mill road								
	road side and kerb	2	70.00		0.35	49.00			
		2	40.00		0.35	28.00			
		2	40.00		0.35	28.00			
		2	350.00		0.35	245.00			
					Total	**350.00**	94.35	Sqm	33023.00
	Basic Rate	85.00							
	A.W.@ 6%	9.35							
	Total	94.35							
8	Providing and SUPPLYING Stone Dust/Grit,4.75mmto0.075.SR 2108-19 P II I0400								
	Ganesha saw mill road	1	500.00	0.60	0.20	60.00			
					Total	**60.00**	1060.00	Cum	63600.00
	Basic Rate	1000.00							
	A.W.@ 6%	60.00							
	Total	1060.00							
9	KSRRB M400-6.2. Construction of granular sub-base by providing close graded crushed stone aggregates of granite / trap / basalt material, spreading in uniform layers with motor grader on prepared surface, mixingby mix in place method by rotavator at OMC, and compacting with vibratory power roller to achieve the desired density, complete as per specifications. B. By Mix in Place Method. - For Grading II Material SR2018-19 P 153, I 20.6								
	Ganesha saw mill road	1	500.00	1.50	0.15	112.50			
					Total	**112.50**	1855.00	Cum	208688.00
	Basic Rate	1750.00							
	A.W.@ 6%	105.00							
	Total	1855.00							
10	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406SR RATE 2018-19,P 155 I 20.18								
	Ganesha saw mill road	1	500.00	1.50	0.15	112.50			
					Total	**112.50**	2001.28	Cum	225144.00
	Basic Rate	1888.00							
	A.W.@ 6%	113.28							
	Total	2001.28							

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11	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 SR 2018-19,P158,il 21.6								
	Ganesha saw mill road	2	500.00	1.50		1500.00			
					Total	**1500.00**	26.50	sqm	39750.00
	Basic Rate	25.00							
	A.W.@ 6%	1.50							
	Total	26.50							
12	KSRRB M500-17. Providing and laying **dense graded bituminous macadam** using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen. SR 2018-19.P160,I 21.17.6								
	Ganesha saw mill road Profile correction for road	1	500.00	6.00		3000.00			
	total=5100.00*10/100=330*.05					25.50			
	Ganesha saw mill road	1	500.00	1.50	0.05	37.50			
					Total	**63.00**	5727.18	Cum	360812.00
	Basic Rate	5403.00							
	A.W.@ 6%	324.18							
	Total	5727.18							
13	KSRRB M500-10. Providing and applying tack coat using 80/100 grade bitumen(VG10) in boiler fitted with spray set distributor at the rate of 0.20 kg per sqm on the existing prepared bituminous surface cleaned with mchancial broom. complete as per specifications. - using bitumen 80/100 on **primed surfaces SR2018-19,P159,I 21.10**								
	Ganesha saw mill road	1	500.00	6.00		3000.00			
					Total	**3000.00**	10.60	SQM	31800.00
	Basic Rate	10.00							
	A.W.@ 6%	0.60							
	Total	10.60							
14	Providing and laying Bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V Revision as per IRC SP-53-2015 using 40-60 TPH capacity HMP with mechanical paver grading II Cum (30-45mm) with 5.4 % of modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) (p-171, It 21.78.12) PWD SR 2018-19)								
	Ganesha saw mill road	1	500.00	6.00	0.04	120.00			
	(W-0057)				Total	**120.00**	6761.74	Cum	811409.00
	Basic Rate	6379.00							
	A.W.@ 6%	382.74							
	Total	6761.74							
15	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 SR2018-19,P 182 I 24.15								
	Ganesha saw mill road	2	500.00	0.10		100.00			
		1	500.00	0.10		25.00			
					Total	**125.00**	454.74	sqm	56843.00
	Basic Rate	429.00							
	A.W.@ 6%	25.74							
	Total	454.74							
16	KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/sand/.kanker/moorum. KSRRB M100-1:Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 PWD SR 2018-19 (P-136, It.No. 17.1)								
	Qty vide Item No.,2,					648.00			
					Total	**648.00**	123.80	Cum	80222.00
	Basic Rate	111.00							
	Conveying for 4Km	12.80							
	Total	123.80							

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17	Sub total								3418635.00
18	Tender Charges 5%.								170932.00
19	GST Charges 12%								410236.00
20	Miscellaneous & Rounding off:								197.00
							Total Rs:		4000000.00

CERTIFICATE:

1. The work spot has been inspected and found to be necessary
2. The work spot comes under BBMP Limits
3. The provisions made in the estimate are necessary and minimum
4. The estimate is based on CSR of 2018-19
5. The above work is not Repeated any other grants and not in the list of completed works

Assistant Engineer
Ward No.15

Assistant Executive Engineer
T.Dasarahalli Sub-Division
Bruhat Bengaluru Mahanagara Palike

Executive Engineer
T .Dasarahalli Division
Bruhat Bengaluru Mahanagara Palike

ADMINISTRATIVELY SANCTIONED FOR 40.00 lakhs
(Rupees Fourty lakhs only
Under the Head of Account P-3726
Registered as SE/DD/AS/95/20-21
to conditions contained in Enclosed Memo
No EE/DD/AS/95/20-21 Dt 04/07/2020
Exc. Engr
JE/AE. (DASARAHALLI) BBMP

Technically Sanctioned For Rs: 40.00 lakhs.
Rs. In Words Fourty lakhy only
Under P-3726.
Job Code No. 015-20-000107.
Registered as SE No. / Subject
to conditions contained in Enclosed Memo
No. SE/DZ/TS/59/20-21 Dt 17-07-2020
AE / JE TA SE(D)

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